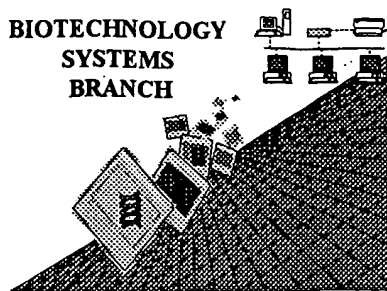


BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/032,201
Source: OIP
Date Processed by STIC: 1/15/2002

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- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

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Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

1. EFS-Bio (<http://www.uspto.gov/ebs/efs/downloads/documents.htm>), EFS Submission

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2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202

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2011 South Clark Place, Arlington, VA 22202

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OIPE

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/032,201

DATE: 01/15/2002
 TIME: 08:06:13

Input Set : A:\351bseq.001
 Output Set: N:\CRF3\01152002\J032201.raw

3 <110> APPLICANT: Van Rooijen, Gijs
 4 Deckers, Harm
 5 Heifetz, Peter Bernard
 6 Briggs, Steven
 7 Dalmia, Bipin Kumar
 8 Del Val, Greg
 9 Zaplachinski, Steve
 10 Moloney, Maurice
 12 <120> TITLE OF INVENTION: METHODS FOR THE PRODUCTION OF MULTIMERIC PROTEINS, AND
 RELATED
 13 COMPOSITIONS
 15 <130> FILE REFERENCE: 38814-351B
 17 <140> CURRENT APPLICATION NUMBER: US/10/032,201
 18 <141> CURRENT FILING DATE: 2001-12-19
 20 <160> NUMBER OF SEQ ID NOS: 313
 22 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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 26 <212> TYPE: DNA
 27 <213> ORGANISM: Artificial Sequence
 29 <220> FEATURE:
 30 <223> OTHER INFORMATION: Primer
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 35 <210> SEQ ID NO: 2
 36 <211> LENGTH: 22
 37 <212> TYPE: DNA
 38 <213> ORGANISM: Artificial Sequence
 40 <220> FEATURE:
 41 <223> OTHER INFORMATION: Primer
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 57 <210> SEQ ID NO: 4
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 59 <212> TYPE: DNA
 60 <213> ORGANISM: Artificial Sequence
 62 <220> FEATURE:
 63 <223> OTHER INFORMATION: Primer
 65 <400> SEQUENCE: 4
 66 ttaagcttca atcactctta ccttgctg 28

Does Not Comply
 Corrected Diskette Needed

P.b

RAW SEQUENCE LISTING

DATE: 01/15/2002

PATENT APPLICATION: US/10/032,201

TIME: 08:06:13

Input Set : A:\351bseq.001

Output Set: N:\CRF3\01152002\J032201.raw

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78 gtgatcgccct gc 72
80 <210> SEQ ID NO: 6
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86 <223> OTHER INFORMATION: Primer
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90 ctcttgtaag aatgctctgc 80
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93 <211> LENGTH: 22
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95 <213> ORGANISM: Artificial Sequence
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98 <223> OTHER INFORMATION: Primer
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106 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: Chimeric
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114 atggctaacg acatcgctcc cggtggtcaa ctaacaacca ccaccgacgt cgagaatttc 180
115 cccggatttc cagaaggatg tctcggagta gagctcactg acaaattccg taaacaatcg 240
116 gagcgattcg gtactacgat atttacagag acggtgacga aagtcgattt ctcttcgaaa 300
117 ccgtttaagc tattcacaga ttcaaaagcc attctcgctg acgctgtgat tctcgctact 360
118 ggagctgtgg ctaagcggct tagcttcggt ggatctgggt aaggttctgg aggtttctgg 420
119 aaccgtggaa tctccgcttg tgctgtttgc gacggagctg ctccgatatt ccgtaacaaa 480
120 cctcttgccg tgatcgggtg aggcgattca gcaatggaag aagcaaactt tcttacaaaa 540
121 tatggatcta aagtgtatat aatccatagg agagatgctt ttagagcgtc taagattatg 600
122 cagcagcgag ctttgtctaa tcctaagatt gatgtgattt ggaactcgtc tgttggtgaa 660
123 gcttatggag atggagaaa agatgtgctt ggaggattga aagtgaagaa tgtggttacc 720
124 ggagatgttt ctgatttaaa agtttctgga ttgttctttg ctattggtca tgagccagct 780
125 accaagtttt tggatggtgg tgttgagttg gattcggatg gttatgttgt cacgaagcct 840
126 ggtactacac agactagcgt tcccggagtt ttcgctgcgg gtgatgttca ggataagaag 900
127 tataggcaag ccatcactgc tgcaggaact ggggtgcatgg cagctttgga tgcagagcat 960

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RAW SEQUENCE LISTING

DATE: 01/15/2002

PATENT APPLICATION: US/10/032,201

TIME: 08:06:13

Input Set : A:\351bseq.001

Output Set: N:\CRF3\01152002\J032201.raw

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131 <211> LENGTH: 999
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133 <213> ORGANISM: Arabidopsis thaliana
135 <400> SEQUENCE: 9
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137 cacacggcgg cgatttacgc agctagggct gaacttaaac ctcttctctt cgaaggatgg 120
138 atggctaacg acatcgctcc cgggtggtcaa ctcaaccaac caccgctgta gaatttcccc 180
139 ggatttccag aaggtattct cggagtagag ctactgaca aattccgtaa acaatcggag 240
140 cgattcggta ctacgatatt tacagagacg gtgacgaaag tcgatttctc ttcgaaaccg 300
141 tttaagctat tcacagattc aaaagccatt ctcgctgacg ctgtgattct cgctatcgga 360
142 gctgtggcta agtggttag cttcgttggg tctggtgaag ttctcggagg tttgtggaac 420
143 cgtggaatct ccgcttggtc tgtttgcgac ggagctgctc cgatattccg caacaaacct 480
144 cttgcggtga tcggtggagg cgattctgca atggaagaag caaactttct tacaaaatat 540
145 ggatctaaag tgtatataat cgataggaga gatgctttta gagcgtctaa gattatgcag 600
146 cagcgagctt tgtctaatac taagattgat gtgatttgga actcgtctgt tgtggaagct 660
147 tatggagatg gagaaagaga tgtgcttggg ggattgaaag tgaagaatgt ggttaccgga 720
148 gatgtttctg atttaaaagt ttctggattg ttctttgcta ttggtcatga gccagctacc 780
149 aagtttttgg atggtggtgt tgagttagat tcggatgggt atgttgtcac gaagcctggt 840
150 actacacaga ctagegttcc cggagttttc gctgcgggtg atgttcagga taagaagtat 900
151 aggcaagcca tcaactgtgc aggaactggg tgcattggcg ctttggatgc agagcattac 960
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154 <210> SEQ ID NO: 10
155 <211> LENGTH: 1002
156 <212> TYPE: DNA
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160 <223> OTHER INFORMATION: Chimeric
162 <221> NAME/KEY: CDS
163 <222> LOCATION: (1)...(1002)
164 <223> OTHER INFORMATION: cDNA encoding NADPH thioresoxin reductase
166 <400> SEQUENCE: 10
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169 1 5 10 15
171 ggc cca gcg gca cac acg gcg gcg att tac gca gct agg gct gaa ctt 96
172 Gly Pro Ala Ala His Thr Ala Ala Ile Tyr Ala Ala Arg Ala Glu Leu
173 20 25 30
175 aaa cct ctt ctc ttc gaa gga tgg atg gct aac gac atc gct ccc ggt 144
176 Lys Pro Leu Leu Phe Glu Gly Trp Met Ala Asn Asp Ile Ala Pro Gly
177 35 40 45
179 ggt caa cta aca acc acc acc gac gtc gag aat ttc ccc gga ttt cca 192
180 Gly Gln Leu Thr Thr Thr Thr Asp Val Glu Asn Phe Pro Gly Phe Pro
181 50 55 60
183 gaa ggt att ctc gga gta gag ctc act gac aaa ttc cgt aaa caa tcg 240
184 Glu Gly Ile Leu Gly Val Glu Leu Thr Asp Lys Phe Arg Lys Gln Ser
185 65 70 75 80
187 gag cga ttc ggt act acg ata ttt aca gag acg gtg acg aaa gtc gat 288

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RAW SEQUENCE LISTING

DATE: 01/15/2002

PATENT APPLICATION: US/10/032,201

TIME: 08:06:13

Input Set : A:\351bseq.001

Output Set: N:\CRF3\01152002\J032201.raw

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192 Phe Ser Ser Lys Pro Phe Lys Leu Phe Thr Asp Ser Lys Ala Ile Leu
193      100      105      110
195 gct gac gct gtg att ctc gct act gga gct gtg gct aag cgg ctt agc 384
196 Ala Asp Ala Val Ile Leu Ala Thr Gly Ala Val Ala Lys Arg Leu Ser
197      115      120      125
199 ttc gtt gga tct ggt gaa ggt tct gga ggt ttc tgg aac cgt gga atc 432
200 Phe Val Gly Ser Gly Glu Gly Ser Gly Gly Phe Trp Asn Arg Gly Ile
201      130      135      140
203 tcc gct tgt gct gtt tgc gac gga gct gct ccg ata ttc cgt aac aaa 480
204 Ser Ala Cys Ala Val Cys Asp Gly Ala Ala Pro Ile Phe Arg Asn Lys
205 145      150      155      160
207 cct ctt gcg gtg atc ggt gga ggc gat tca gca atg gaa gaa gca aac 528
208 Pro Leu Ala Val Ile Gly Gly Gly Asp Ser Ala Met Glu Glu Ala Asn
209      165      170      175
211 ttt ctt aca aaa tat gga tct aaa gtg tat ata atc cat agg aga gat 576
212 Phe Leu Thr Lys Tyr Gly Ser Lys Val Tyr Ile Ile His Arg Arg Asp
213      180      185      190
215 gct ttt aga gcg tct aag att atg cag cag cga gct ttg tct aat cct 624
216 Ala Phe Arg Ala Ser Lys Ile Met Gln Gln Arg Ala Leu Ser Asn Pro
217      195      200      205
219 aag att gat gtg att tgg aac tcg tct gtt gtg gaa gct tat gga gat 672
220 Lys Ile Asp Val Ile Trp Asn Ser Ser Val Val Glu Ala Tyr Gly Asp
221      210      215      220
223 gga gaa aga gat gtg ctt gga gga ttg aaa gtg aag aat gtg gtt acc 720
224 Gly Glu Arg Asp Val Leu Gly Gly Leu Lys Val Lys Asn Val Val Thr
225 225      230      235      240
227 gga gat gtt tct gat tta aaa gtt tct gga ttg ttc ttt gct att ggt 768
228 Gly Asp Val Ser Asp Leu Lys Val Ser Gly Leu Phe Phe Ala Ile Gly
229      245      250      255
231 cat gag cca gct acc aag ttt ttg gat ggt ggt gtt gag tta gat tcg 816
232 His Glu Pro Ala Thr Lys Phe Leu Asp Gly Gly Val Glu Leu Asp Ser
233      260      265      270
235 gat ggt tat gtt gtc acg aag cct ggt act aca cag act agc gtt ccc 864
236 Asp Gly Tyr Val Val Thr Lys Pro Gly Thr Thr Gln Thr Ser Val Pro
237      275      280      285
239 gga gtt ttc gct gcg ggt gat gtt cag gat aag aag tat agg caa gcc 912
240 Gly Val Phe Ala Ala Gly Asp Val Gln Asp Lys Lys Tyr Arg Gln Ala
241      290      295      300
243 atc act gct gca gga act ggg tgc atg gca gct ttg gat gca gag cat 960
244 Ile Thr Ala Ala Gly Thr Gly Cys Met Ala Ala Leu Asp Ala Glu His
245 305      310      315      320
247 tac tta caa gag att gga tct cag caa ggt aag agt gat tga 1002
248 Tyr Leu Gln Glu Ile Gly Ser Gln Gln Gly Lys Ser Asp *
249      325      330
253 <210> SEQ ID NO: 11
254 <211> LENGTH: 333

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RAW SEQUENCE LISTING

DATE: 01/15/2002

PATENT APPLICATION: US/10/032,201

TIME: 08:06:13

Input Set : A:\351bseq.001

Output Set: N:\CRF3\01152002\J032201.raw

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255 <212> TYPE: PRT
256 <213> ORGANISM: Artificial Sequence
258 <220> FEATURE:
259 <223> OTHER INFORMATION: Chimeric
261 <400> SEQUENCE: 11
262 Met Asn Gly Leu Glu Thr His Asn Thr Arg Leu Cys Ile Val Gly Ser
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264 Gly Pro Ala Ala His Thr Ala Ala Ile Tyr Ala Ala Arg Ala Glu Leu
265 20 25 30
266 Lys Pro Leu Leu Phe Glu Gly Trp Met Ala Asn Asp Ile Ala Pro Gly
267 35 40 45
268 Gly Gln Leu Thr Thr Thr Thr Asp Val Glu Asn Phe Pro Gly Phe Pro
269 50 55 60
270 Glu Gly Ile Leu Gly Val Glu Leu Thr Asp Lys Phe Arg Lys Gln Ser
271 65 70 75 80
272 Glu Arg Phe Gly Thr Thr Ile Phe Thr Glu Thr Val Thr Lys Val Asp
273 85 90 95
274 Phe Ser Ser Lys Pro Phe Lys Leu Phe Thr Asp Ser Lys Ala Ile Leu
275 100 105 110
276 Ala Asp Ala Val Ile Leu Ala Thr Gly Ala Val Ala Lys Arg Leu Ser
277 115 120 125
278 Phe Val Gly Ser Gly Glu Gly Ser Gly Gly Phe Trp Asn Arg Gly Ile
279 130 135 140
280 Ser Ala Cys Ala Val Cys Asp Gly Ala Ala Pro Ile Phe Arg Asn Lys
281 145 150 155 160
282 Pro Leu Ala Val Ile Gly Gly Gly Asp Ser Ala Met Glu Glu Ala Asn
283 165 170 175
284 Phe Leu Thr Lys Tyr Gly Ser Lys Val Tyr Ile Ile His Arg Arg Asp
285 180 185 190
286 Ala Phe Arg Ala Ser Lys Ile Met Gln Gln Arg Ala Leu Ser Asn Pro
287 195 200 205
288 Lys Ile Asp Val Ile Trp Asn Ser Ser Val Val Glu Ala Tyr Gly Asp
289 210 215 220
290 Gly Glu Arg Asp Val Leu Gly Gly Leu Lys Val Lys Asn Val Val Thr
291 225 230 235 240
292 Gly Asp Val Ser Asp Leu Lys Val Ser Gly Leu Phe Phe Ala Ile Gly
293 245 250 255
294 His Glu Pro Ala Thr Lys Phe Leu Asp Gly Gly Val Glu Leu Asp Ser
295 260 265 270
296 Asp Gly Tyr Val Val Thr Lys Pro Gly Thr Thr Gln Thr Ser Val Pro
297 275 280 285
298 Gly Val Phe Ala Ala Gly Asp Val Gln Asp Lys Lys Tyr Arg Gln Ala
299 290 295 300
300 Ile Thr Ala Ala Gly Thr Gly Cys Met Ala Ala Leu Asp Ala Glu His
301 305 310 315 320
302 Tyr Leu Gln Glu Ile Gly Ser Gln Gln Gly Lys Ser Asp
303 325 330
306 <210> SEQ ID NO: 12
307 <211> LENGTH: 332

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<210> 17
 <211> 118
 <212> PRT Artificial
 <213> Artificial sequence

see item 11 on Error Summary Sheet

<400> 17
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 1 5 10 15
 Gln Tyr Pro Met Met Gly Arg Asp Arg Asp Gln Tyr Gln Met Ser Gly
 20 25 30
 Arg Gly Ser Asp Tyr Ser Lys Ser Arg Gln Ile Ala Lys Ala Ala Thr
 35 40 45
 Ala Val Thr Ala Gly Gly Ser Leu Leu Val Leu Ser Ser Leu Thr Leu
 50 55 60
 Val Gly Thr Val Ile Ala Leu Thr Val Ala Thr Pro Leu Leu Val Ile
 65 70 75 80
 Phe Ser Pro Ile Leu Val Pro Ala Leu Ile Thr Val Ala Leu Leu Ile
 85 90 95
 Thr Gly Phe Leu Ser Ser Gly Gly Phe Gly Ile Ala Ala Ile Thr Val
 100 105 110
 Phe Ser Trp Ile Tyr Lys
 115

<210> 18
 <211> 169
 <212> PRT
 <213> Artificial sequence

misspelled -> please correct this spelling error globally
see item 11

<400> 18

FSE

Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/032,201

DATE: 01/15/2002

TIME: 08:06:14

Input Set : A:\351bseq.001

Output Set: N:\CRF3\01152002\J032201.raw

L:17 M:270 C: Current Application Number differs, Replaced Current Application Number
L:18 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:533 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:16
L:678 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:17
L:680 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:680 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:702 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:18
L:704 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:704 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:856 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:19
L:4706 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101
L:4708 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101
L:4710 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101
L:4712 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101
L:4714 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101
L:4716 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101
L:4718 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101
L:4895 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109
L:4897 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109
L:4899 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109
L:4901 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109
L:4905 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109
L:5488 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:134
L:5490 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:134
L:9691 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:245
L:11042 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:275
L:11599 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:287
L:11696 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:288
L:11849 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:290
L:12072 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:293
L:12159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:294
L:12238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:295
L:12323 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:296
L:12638 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:300
L:12851 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:303
L:12930 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:304
L:13153 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:307
L:13260 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:309
L:13419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:312
L:13496 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:313